NJDOT Bureau of Research
QUARTERLY PROGRESS REPORT

Project Title:	Transit Signal Priority; Systems Application and Technology Investigation
RFP NUMBER: 0FHWA-NJ – 2005-019	NJDOT RESEARCH PROJECT MANAGER: Vincent Nichnadowicz
TASK ORDER NUMBER:02	PRINCIPAL INVESTIGATOR: Pippa Woods
Project Starting Date: **Original** Project Ending Date: **Modified Completion Date:**	Period Starting Date: 9/5/08 Period Ending Date: 12/31/08

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Task 1 - survey of national TSP location analyses	25	0	100	25
Task 2 – Develop an intersection based TSP evaluation process and associated guidelines	30	0	100	30
Task 3 – Demonstrate the evaluation process through three case studies	25	0	100	25
Task 4 – Report on the status and findings of the research effort	10	0	100	10
Task 5 - Meetings and Presentations.	10	0	100	10
TOTAL	100%			100 %

Project Objectives:

The objective of this research is to develop an evaluation process that will assist NJ Transit in quickly determining which intersections are good candidates for TSP. This evaluation process is applicable for passive and active TSP and could be applied to a variety of roadways, including urban arterials, state routes, and county roads.

Project Abstract:

In New Jersey, priorities and capital investment strategies are focusing on improving bus service, including express and Bus Rapid Transit (BRT) in key corridors. One key technological component of these investment strategies is Transit Signal Priority (TSP). The New Jersey Department of Transportation, Bureau of Research, in partnership with New Jersey Transit (NJ Transit) engaged Cambridge Systematics, Inc., (CS) to develop an approach that quickly and cost-effectively determines where TSP is appropriate and could make the most impact on improving operations and, therefore, service.

As of 2/06/2004

The research was conducted in five main tasks over a four-month period. Task 1 included a high-level survey of TSP implementations across North America to identify any intersection-level screening criteria either that were used during deployment or that could be recommended based on experience. Task 2 included the development and refinement of an intersection screening procedure based on experience elsewhere and applicable to New Jersey. Task 3 included the application of the screening procedure to three example corridors identified by NJ Transit. Task 4 included documentation of the research in this report. Task 5 included presentations to various stakeholders.

1. Progress this quarter by task:

Task	Work Completed	Percent Complete
1 – survey of national TSP location analyses	• Contacted transit authorities who have deployed TSP. Organizations included: Portland – TriMet, Vancouver – Translink, Los Angeles – LACMTA, Chicago – RTA, CTA, Pace, Oakland – AC Transit, Toronto and NYC Transit.	100%
2 – Develop an intersection based TSP evaluation process and associated guidelines	• Finalized draft scoring approach and submitted to stakeholders on 11/18.	100%
3 – Demonstrate the evaluation process through three case studies	• Applied scoring methodology to three corridors	100%
4 – Report on the status and findings of the research effort	• Developed draft and final report Delivered 12/08.	100%
5 – Meetings and presentations	• Held kick-off meeting • Completed survey work for Task 1 and 2. Met with client to discuss the findings 10/23 and 11/18. • Held coordination conference calls bi-weekly • Held final meeting with NJDOT 12/11.	100%

2. Proposed activities for next quarter by task
None

3. List of deliverables provided in this quarter by task (product date)
Task 4 – Draft and Final Report delivered December 2008.
TSP Methodology Spreadsheet delivered December 2008.
Task 5 – Various PowerPoint Presentations of Project.

4. Progress on Implementation and Training Activities
NA

5. Problems/Proposed Solutions
NA

Total Project Budget	$80,180
Modified Contract Amount:	-
Total Project Expenditure to date	$77,320
% of Total Project Budget Expended	96%